Surge arrester

2-Electrode arrester

Series/Type: **DG2R350S**

Customer:

Version/Date: **Issue 02/2015-08-11**

江苏东晨
Dongchen Electronics

Surge arrester

2-Electrode arrester DG2R350S

Features	Applications
● Extremely small size	● Splitter
● Extremely fast response time	● PCI Cards
● Eexcllent SMD handing	● Morden
● Stable performance over life	● Line cards
● Very low capacitance	
● High insulation resistance	
● RoHS-compatible	
● UL-identification, No:E311500	

Electrical specifications

DC breakdown voltage [2) 3)]	350	V
——*Circuit current less than 2mA*	±20	%
Impulse breakdown voltage [1)]		
at 1kv/us -Typical values of distribution	<600	V
Insulation resistance at DC 100V	>1	GΩ
Capacitance at 1MHz [2)]	<1	Pf
Service life [2)]		
10 operations 8/20us	5	KA
Weight	~1	g
Storage and operations temperature	-40…+90	°C
Climatic category（GB/T 9043，IEC61643-1)	40/90/21	
Marking,Red positive	**2R350**	

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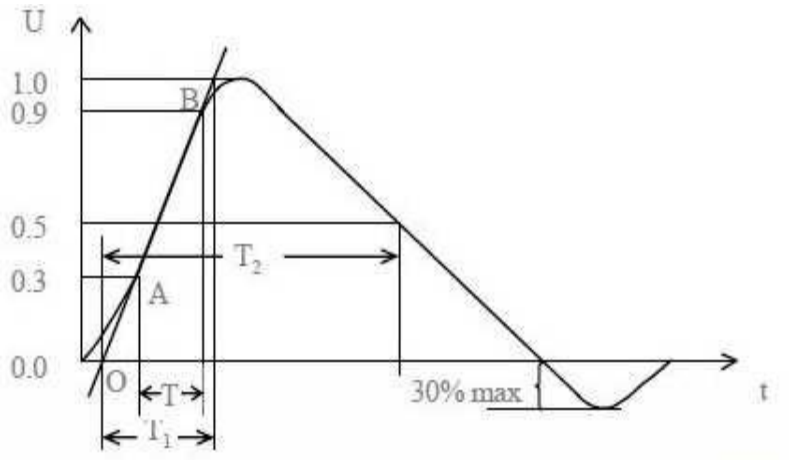
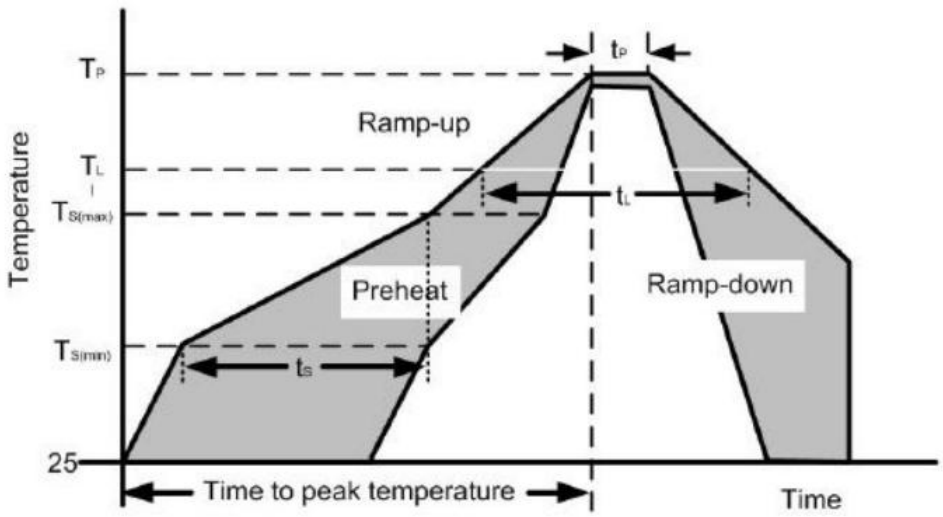
8/20us, Test wave
T1=1.25T=8us±20%
T2=20us±20%

10/700us,Test Wave
T1=1.67T=10us±20%
T2=700us±20%

10/1000us,Test Wave
T1=1.67T=10us±20%
T2=1000us±20%



Recommended reflow profile:



Reflow Condition		Pb – Free
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (ts)	60 – 190 secs
Average ramp up rate (Liquidus Temp) (T_L) to		5°C/second max
$T_{S(max)}$ to T_L——Ramp-up Rate		5°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		$260^{+0/-5}$ °C
Time within actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		280°C

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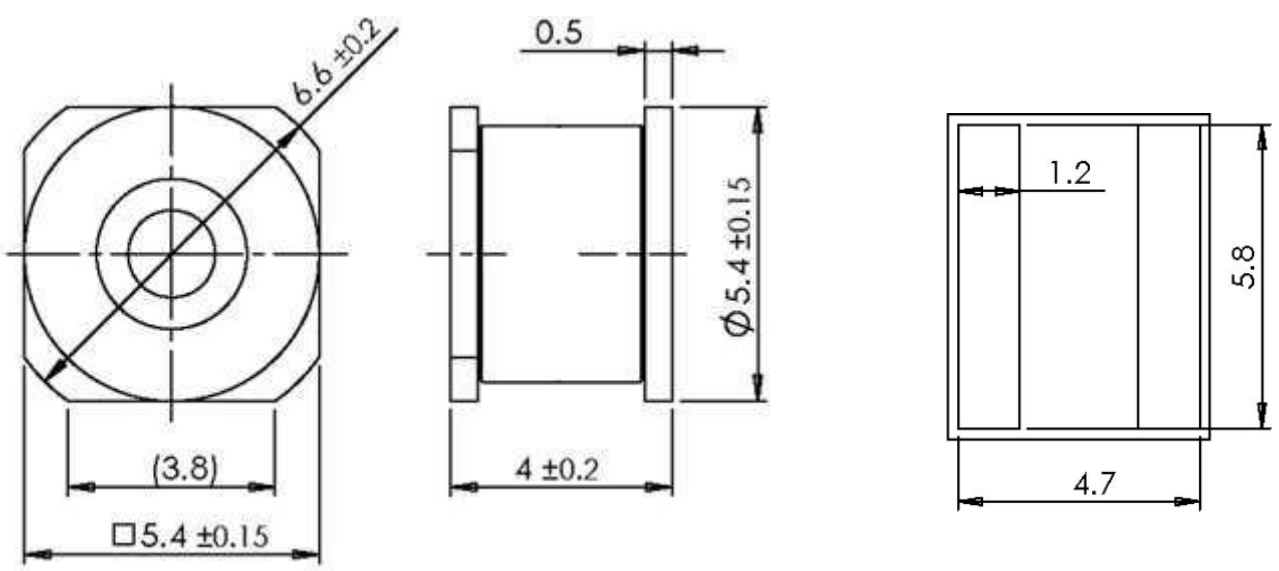
1) Sampling size in accordance to AQL0.65 II (C=0)
2) DC spark-over voltage ±25% after load
3) Tests according to ITU-T Rec. K. 12 and IEC61643-311

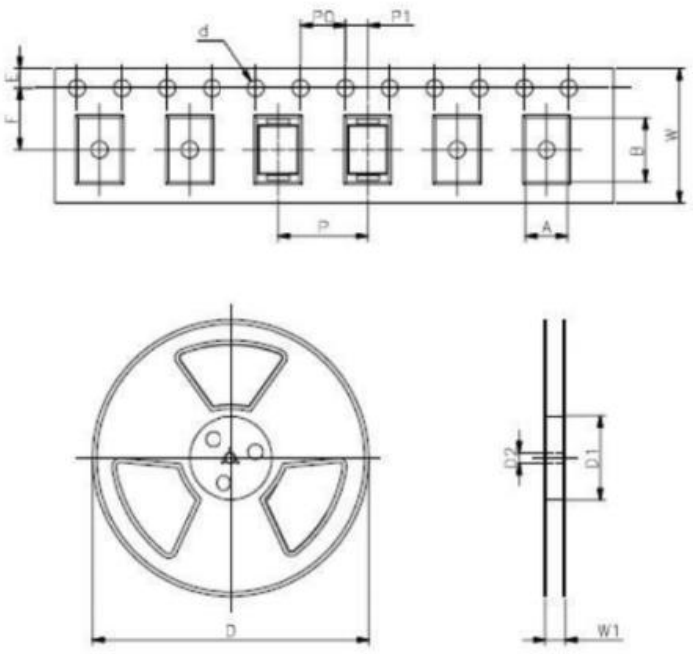
Dimensions



Wire Tin-plated

Packaging

One reel with 900pcs



REF	mm	inch
A	5.3±0.1	0.209±0.004
B	4.5±0.2	0.177±0.008
d	Φ1.5±0.1	Φ0.059±0.004
P0	4.0±0.1	0.157±0.004
P1	2.0±0.1	0.079±0.004
P	12.0±0.1	0.472±0.004
E	1.75±0.1	0.069±0.004
F	7.5±0.1	0.295±0.004
W	16.0±0.3	0.630±0.012
D	Φ330.0	Φ13.0
D1	Φ50Min	Φ1.97Min
D2	Φ13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

Cautions and warnings

- Surge arresters must not be operated directly in power supply networks
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- If the contacts of the surge arrester are defective, current stress can lead to the formation of sparks and loud noises.
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.